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A feature of this embodiment is that turbo code is used as an error correction code, ..... systematic bit data is not allocated to the center frequency F1 ...

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In curve 707, the center frequency has been displaced and is actually no ..... method with at least two systematic convolutional codings in parallel, ...

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We are developing heuristics for the systematic extraction of good graphical ..... bandwidth (3dB bandwidth divided by center frequency) greater than 25%. ...

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Turbo coder consist of recursive systematic coders and an interleaver. .... center frequency of the assigned. channel. Receiver selectivity ...

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atic codes such as turbo code and LDPC code. By en- coding the transmission bit sequence using systematic. code, coding sections 102-1 and 102-2 generate ...

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2dB difference at turbo code block error rate (BLER) 10e-3. (Fig. 7(a)). .... frame period (e.g. 30 ms for high-quality video) of the flow in ...

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Potential Commercial Applications: A greatly enhanced TURBO code should have a .....  
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as Rel-6 UMTS Turbo code except the Turbo code internal interleaver is based on  
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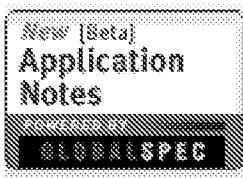
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# Correspondence Address for 10/530368

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## Parent Data

10530368, filed 04/06/2005

is a national stage entry of [PCT/JP03/12564](#) International Filing Date: 10/01/2003

## Child Data

No Child Data

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# Foreign Information for 10/530368

Priority#	Date	Country
2003007616	01/15/2003	JAPAN
2002297534	10/10/2002	JAPAN

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## Application Number Information

Application Number: 10/530368

Assignments

Filing or 371(c) Date: 04/06/2005 eDan

Effective Date: 04/06/2005

Application Received: 04/06/2005

Pat. Num./Pub. Num: /20060160498

Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000

Attorney Docket Number: L9289.05120

Status: 30 /DOCKETED NEW CASE - READY FOR EXAMINATION Status Date: 10/19/2007

Confirmation Number: 2711

Examiner Number: 80488 / TORRES, JUAN

Group Art Unit: 2611 IFW Madras

Class/Subclass:

375/295.000

Lost Case: NO

Waiting for Response

Desc.

Prior Art Filed

Interference Number:

Unmatched Petition: NO

L&amp;R Code: Secrecy Code:1

Third Level Review: NO Secrecy Order: NO

Oral Hearing: NO

Title of Invention: MULTI-CARRIER TRANSMITTING APPARATUS AND MULTI-CARRIER TRANSMITTING METHOD

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# Inventor Information for 10/530368

Inventor Name	City	State/Country
SUDO, HIROAKI	YOKOHAMA-SHI	JAPAN

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## Inventor Name Search Result

Your Search was:

Last Name = SUDO

First Name = HIROAKI

Application#	Patent#	Status	Date Filed	Title	Inventor Name
07278604	4909645	150	12/01/1988	PIVOTABLE SUPPORT ENABLING PAPER INSERTION IN A RECORDING APPARATUS	SUDO, HIROAKI
07684279	5229869	250	04/12/1991	PORTABLE ORIGINAL READING APPARATUS	SUDO, HIROAKI
07832738	5276527	250	02/07/1992	COMPACT PORTABLE RECORDING APPARATUS WITH THIN, FLAT CASE, AND WHICH RECEIVES RECORDING PAPER ON AN UPPER SURFACE THEREOF	SUDO, HIROAKI
08824774	6026129	150	03/26/1997	RADIO RECEIVING APPARATUS FOR RECEIVING COMMUNICATION SIGNALS OF DIFFERENT BANDWIDTHS	SUDO, HIROAKI
08867806	6208701	150	06/03/1997	SYNCHRONIZING APPARATUS	SUDO, HIROAKI
08999068	6044254	150	12/29/1997	RECEIVING CIRCUIT	SUDO, HIROAKI
09027510	6069924	150	02/20/1998	DIFFERENTIAL DETECTOR WITH ERROR CORRECTING FUNCTION	SUDO, HIROAKI
09028853	6111921	150	02/24/1998	ESTIMATOR OF ERROR RATE	SUDO, HIROAKI
09075884	6584305	150	05/11/1998	DIRECT CONVERSION RADIO RECEIVING SYSTEM USING DIGITAL SIGNAL PROCESSING FOR CHANNEL FILTERING AND DOWN CONVERSION TO BASE BAND.	SUDO, HIROAKI
09433205	6584092	150	11/04/1999	APPARATUS AND METHOD FOR OFDM COMMUNICATION	SUDO, HIROAKI
09447860	6647025	150	11/23/1999	OFDM RECEPTION APPARATUS	SUDO,

					HIROAKI
09456447	6101226	250	12/08/1999	RADIO RECEIVING APPARATUS FOR RECEIVING COMMUNICATION SIGNALS OF DIFFERENT BANDWIDTHS	SUDO, HIROAKI
09456449	6104764	250	12/08/1999	RADIO RECEIVING APPARATUS FOR RECEIVING COMMUNICATION SIGNALS OF DIFFERENT BANDWIDTHS	SUDO, HIROAKI
09456469	6307897	150	12/08/1999	RADIO RECEIVING APPARATUS FOR RECEIVING COMMUNICATION SIGNALS OF DIFFERENT BANDWIDTHS	SUDO, HIROAKI
09457291	6671524	150	12/09/1999	BASE STATION APPARATUS AND TRANSMISSION BRANCH SELECTION METHOD	SUDO, HIROAKI
09464388	6714511	150	12/16/1999	OFDM TRANSMISSION/RECEPTION APPARATUS HAVING A GUARD INTERVAL LENGTH CHANGING FUNCTION	SUDO, HIROAKI
09512262	7106689	150	02/24/2000	OFDM TRANSMISSION/RECEPTION APPARATUS	SUDO, HIROAKI
09520015	6625111	150	03/06/2000	OFDM COMMUNICATION APPARATUS	SUDO, HIROAKI
09550167	6944119	150	04/14/2000	OFDM RECEIVING APPARATUS, OFDM TRANSMISSION APPARTAUS AND OFDM COMMUNICATION METHOD	SUDO, HIROAKI
09566984	6879626	150	05/09/2000	TRANSMISSION/RECEPTION APPARATUS AND MODULATION SYSTEM ESTIMATION METHOD	SUDO, HIROAKI
09582558	7072416	150	06/29/2000	TRANSMITTING/RECEIVING DEVICE AND TRANSMITTING/RECEIVING METHOD	SUDO, HIROAKI
09582613	6345036	150	06/29/2000	OFDM TRANSMITTING/RECEIVING DEVICE AND METHOD	SUDO, HIROAKI
09605862	6839335	150	06/29/2000	RADIO COMMUNICATION APPARATUS AND RADIO COMMUNICATION METHOD	SUDO, HIROAKI
09613527	7161895	150	07/10/2000	OFDM-CDMA COMMUNICATION TERMINAL APPARATUS AND METHOD	SUDO, HIROAKI

09635096	6868056	150	08/09/2000	APPARATUS AND METHOD FOR OFDM COMMUNICATION	SUDO, HIROAKI
09674729	6909718	150	11/06/2000	TRANSMISSION-RECEPTION APPARATUS AND METHOD FOR PERFORMING ERROR CONTROL	SUDO, HIROAKI
09709650	6456677	150	11/13/2000	SYNCHRONIZATION EQUIPMENT	SUDO, HIROAKI
09806313	6950474	150	03/29/2001	OFDM COMMUNICATION DEVICE	SUDO, HIROAKI
09806412	6937557	150	03/30/2001	OFDM COMMUNICATION APPARATUS	SUDO, HIROAKI
09984944	6747945	150	10/31/2001	OFDM TRANSMITTING AND RECEIVING APPARATUS AND OFDM TRANSMITTING AND RECEIVING METHOD	SUDO, HIROAKI
10070549	Not Issued	161	03/07/2002	Multi-carrier communication apparatus and peak power suppression method	SUDO, HIROAKI
10111635	Not Issued	161	04/26/2002	Multicarrier transmission apparatus and multicarrier transmission method	SUDO, HIROAKI
10169716	Not Issued	71	07/09/2002	Ofdm communication device	SUDO, HIROAKI
10182104	7177266	150	07/25/2002	OFDM COMMUNICATION APPARATUS AND OFDM COMMUNICATION METHOD	SUDO, HIROAKI
10278540	6922454	150	10/23/2002	DIRECT CONVERSION RADIO RECEIVING SYSTEM USING DIGITAL SIGNAL PROCESSING FOR CHANNEL FILTERING AND DOWN CONVERSION TO BASE BAND	SUDO, HIROAKI
10311592	Not Issued	71	12/18/2002	Base station apparatus and radio communication method	SUDO, HIROAKI
10344097	Not Issued	41	02/10/2003	Multicarrier transmitter, multicarrier receiver, and multicarrier wireless communication method	SUDO, HIROAKI
10450566	Not Issued	41	06/16/2003	Radio communication apparatus and radio communication method	SUDO, HIROAKI
10466674	Not Issued	41	07/21/2003	Radio transmission apparatus, radio reception apparatus, and radio transmission method	SUDO, HIROAKI
10470021	7298722	150	07/23/2003	RADIO TRANSMISSION APPARATUS AND RADIO	SUDO, HIROAKI

TRANSMISSION METHOD					
10484951	7269774	150	01/28/2004	DATA RECEIVING APPARATUS, DATA TRANSMITTING APPARATUS AND RETRANSMISSION REQUEST METHOD	SUDO, HIROAKI
10487574	Not Issued	41	02/25/2004	Transmission/reception apparatus and transmission/reception method	SUDO, HIROAKI
10488610	Not Issued	93	03/04/2004	OFDM COMMUNICATION METHOD AND OFDM COMMUNICATION DEVICE	SUDO, HIROAKI
10500721	Not Issued	71	07/06/2004	Cdma transmitting device and cdma transmitting method	SUDO, HIROAKI
10502091	Not Issued	61	07/22/2004	Ofdm-cdma transmission device and ofdm-cdma transmission method	SUDO, HIROAKI
10507076	Not Issued	161	09/09/2004	Radio communication device receiver device and reception manner selecting method	SUDO, HIROAKI
10515913	7281189	150	11/29/2004	APPARATUS AND METHOD FOR SEPARATELY MODULATING SYSTEMATIC BITS AND PARITY BITS IN ACCORDANCE WITH COMMUNICATION QUALITY	SUDO, HIROAKI
10516180	7206597	150	11/30/2004	TRANSMISSION APPARATUS AND AUTO GAIN CONTROL METHOD	SUDO, HIROAKI
10522980	7251469	150	02/02/2005	CDMA TRANSMITTING APPARATUS AND CDMA TRANSMITTING METHOD	SUDO, HIROAKI
10527199	Not Issued	71	03/10/2005	Cdma transmitting apparatus and cdma receiving apparatus	SUDO, HIROAKI

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## Inventor Name Search Result

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Last Name = SUDO

First Name = HIROAKI

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">10530368</a>	Not Issued	30	04/06/2005	Multi-carrier transmitting apparatus and multi-carrier transmitting method	SUDO, HIROAKI
<a href="#">10532354</a>	Not Issued	41	09/06/2005	Communication device	SUDO, HIROAKI
<a href="#">10534987</a>	Not Issued	61	05/16/2005	Transmitting apparatus and transmitting method	SUDO, HIROAKI
<a href="#">10536010</a>	7299027	150	05/23/2005	MIMO RECEIVER AND MIMO RECEPTION METHOD FOR SELECTION OF MIMO SEPARATION AND CHANNEL VARIATION COMPENSATION	SUDO, HIROAKI
<a href="#">10542657</a>	Not Issued	83	07/19/2005	Communication system and communication method	SUDO, HIROAKI
<a href="#">10773396</a>	7403471	150	02/09/2004	METHOD AND APPARATUS FOR SETTING A GUARD INTERVAL IN AN OFDM COMMUNICATION	SUDO, HIROAKI
<a href="#">10919251</a>	7058006	150	08/17/2004	OFDM COMMUNICATION APPARATUS	SUDO, HIROAKI
<a href="#">11128317</a>	Not Issued	41	05/13/2005	Reception apparatus	SUDO, HIROAKI
<a href="#">11431606</a>	Not Issued	71	05/11/2006	Apparatus and method for transmission/reception	SUDO, HIROAKI
<a href="#">11497263</a>	Not Issued	80	08/02/2006	OFDM transmission/reception apparatus	SUDO, HIROAKI
<a href="#">11632730</a>	Not Issued	30	01/18/2007	Tape/Tube Printer	SUDO, HIROAKI
<a href="#">11767124</a>	Not Issued	30	06/22/2007	CDMA TRANSMISSION APPARATUS AND CDMA TRANSMISSION METHOD	SUDO, HIROAKI
<a href="#">11814658</a>	Not	19	01/01/0001	TRANSMISSION DEVICE AND	SUDO, HIROAKI

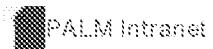
	Issued			TRANSMISSION METHOD	
11814910	Not Issued	19	01/01/0001	COMMUNICATION DEVICE AND COMMUNICATION METHOD	SUDO, HIROAKI
11859550	Not Issued	30	09/21/2007	WIRELESS RECEIVER AND WIRELESS RECEPTION METHOD	SUDO, HIROAKI
12102786	Not Issued	25	04/14/2008	TRANSMISSION-RECEPTION APPARATUS	SUDO, HIROAKI

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